

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/012615

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 A47L13/258 A47L13/58

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A47L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category * | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                                 | Relevant to claim No. |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| X          | US 2003/167589 A1 (DINGERT UWE ET AL)<br>11 September 2003 (2003-09-11)<br>page 1, paragraph 2<br>page 1, paragraph 5<br>page 3, paragraph 36 - paragraph 37<br>figures 1-4                                        | 1-13                  |
| X          | DE 102 23 074 C1 (ALFRED KAERCHER GMBH & CO. KG) 14 August 2003 (2003-08-14)<br>column 1, paragraph 1<br>column 1, paragraph 4 - column 2,<br>paragraph 11<br>column 7, paragraph 54 - paragraph 55<br>figures 6,7 | 1,2,4,5,<br>7-11,13   |
| A          | US 5 864 914 A (SALMON ET AL)<br>2 February 1999 (1999-02-02)<br>the whole document                                                                                                                                | 1                     |

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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

**\* Special categories of cited documents :**

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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Date of the actual completion of the international search

22 February 2005

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04/03/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages                     | Relevant to claim No. |
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| A          | US 4 044 419 A (ROBINSON ET AL)<br>30 August 1977 (1977-08-30)<br>figure 1                             | 1,6                   |
| A          | GB 1 360 882 A (CLINKARD W H)<br>24 July 1974 (1974-07-24)<br>page 1, line 10 - line 25<br>figures 1,2 | 1                     |

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/012615

| Patent document<br>cited in search report |    | Publication<br>date | Patent family<br>member(s)                                                                                                                                                                 | Publication<br>date                                                                                                                                                  |
|-------------------------------------------|----|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| US 2003167589                             | A1 | 11-09-2003          | DE 10210569 A1<br>AU 2003206805 A1<br>CA 2478404 A1<br>WO 03075737 A2<br>EP 1482829 A2                                                                                                     | 25-09-2003<br>22-09-2003<br>18-09-2003<br>18-09-2003<br>08-12-2004                                                                                                   |
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| GB 1360882                                | A  | 24-07-1974          | NONE                                                                                                                                                                                       |                                                                                                                                                                      |